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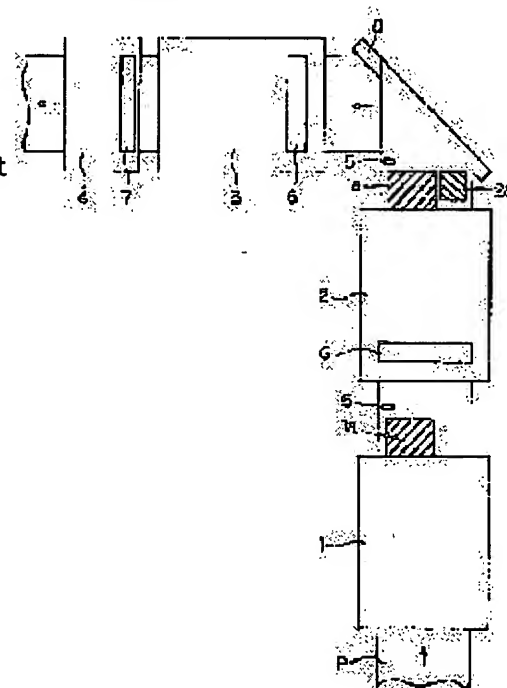
KIKUCHI TORU

(54) INTERLOCKING CONTROLLING METHOD OF ELECTROPHOTOGRAPHIC DEVICE

(57)Abstract:

PURPOSE: To make it possible to realize smooth interlocking action among a plurality of electrophotographic devices in comparatively complicated printing operation.

CONSTITUTION: A means for forming sign 5 corresponding to the content of image information on printing paper P is provided in an electrophotographic device 1, which is provided in the upstream of image forming process. In a downstream electrophotographic device 2, a means 6 for recognizing the sign 5 is provided so as to actuate the downstream electrophotographic device 2 by the sign 5.



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CLAIMS

[Claim(s)]

[Claim 1] The coordinated control method of the electrophotography equipment characterized by to prepare a means discriminate the aforementioned sign, in the equipment which prepared the sign means forming which forms the sign according to the contents of image information in a print sheet, and was formed down-stream at the electrophotography equipment formed in the upstream of the aforementioned image-formation process in the image-formation process which forms image information in a continuous stationary continuously using two or more electrophotography equipments, and to operate the aforementioned downstream device based on the aforementioned sign.

[Claim 2] The coordinated control method of the electrophotography equipment according to claim 1 characterized by the aforementioned downstream device being electrophotography equipment.

[Claim 3] The coordinated control method of the electrophotography equipment according to claim 1 characterized by the aforementioned downstream device being after-treatment equipment.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the coordinated control method of electrophotography equipment.

[0002]

[Description of the Prior Art] JP,62-224821,A is in continuous form as conventional technology about the image formation process which prints image data using two or more printing machines.

[0003] According to the above-mentioned official report, the technology of performing correctly the synchronous control of two or more printing machines is shown by by printing a synchronous mark in a form with the 1st printing machine, and detecting with the detection equipment which prepared this synchronous mark in the 2nd printing machine.

[0004]

[Problem(s) to be Solved by the Invention] Since it had only the function to supervise starting of two or more printing machines and halt timing in the synchronous mark shown in the above-mentioned official report, based on the synchronous mark, the content of a job in a consecutive printing machine could not be specified, but doing simple printing work was only completed.

[0005] The purpose of this invention is offering the coordinated control method of the electrophotography equipment which makes it possible to carry out coordinated operation of two or more electrophotography equipments smoothly also in comparatively complicated printing work while aiming at the kind of sign formed in a print sheet by the electrophotography equipment formed in the upstream, and the increase in amount of information.

[0006]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, a means discriminate the aforementioned sign is prepared in the equipment which prepared the sign means forming which forms the sign according to the content of image information in the print sheet, and was formed down-stream, and it was made operate the aforementioned downstream device based on the aforementioned sign to the electrophotography equipment formed in the upstream of an image formation process in the coordinated control method of the electrophotography equipment of this invention.

[0007]

[Function] According to the coordinated control method of the above electrophotography equipments, it becomes possible to carry out coordinated operation of two or more electrophotography equipments smoothly also in comparatively complicated printing work.

[0008]

[Example] Hereafter, the example of this invention is explained, referring to drawing.

[0009] Drawing 1 is the outline plan of the system by which the coordinated control method of the electrophotography equipment used as this invention is applied.

[0010] In drawing, a sign 1, a sign 2, and a sign 3 show electrophotography equipment, and a sign 4 shows after-treatment equipment. In this example, as shown in drawing 1, while arranging one set of three sets of electrophotography equipments, and after-treatment equipment, the system configuration form [system configuration] form clinch equipment 8 between electrophotography equipment 2 and electrophotography equipment 3, and it was made to make the conveyance path of a continuous stationary P change into a right angle mostly is mentioned as an example, and is explained.

[0011] As for the print sheet P sent into electrophotography equipment 1, based on a well-known electrophotography process, 1st image information 1a is printed by electrophotography equipment 1 from the former.

[0012] Electrophotography equipment 1 forms a sign 5 outside the field of image information 1a while printing 1st

image information 1a to a print sheet P.

[0013] The print sheet P with which 1st image information 1a and the sign 5 were formed shifts to electrophotography equipment 2 from electrophotography equipment 1.

[0014] In electrophotography equipment 2, printing work precedes being started, and the sign 5 formed in the print sheet P is read by the sign discernment means 6 prepared in electrophotography equipment 2. A sign 5 can be formed in a bar code, an OCR font, and all other forms. Moreover, the sign discernment means 6 is constituted according to the sign 5, such as using an optical identification unit.

[0015] Discernment of the information set as the sign 5 by the sign discernment means 6 performs printing of 2nd image information 2a with electrophotography equipment 2.

[0016] In addition, when the content of the image information printed with electrophotography equipment 1 changes to image information 1b from image information 1a, as shown in drawing 2, according to the content of image information, sign 5a is switched to sign 5b.

[0017] The printing side of Form P is reversed, each image information and the sign which were printed in electrophotography equipment 1 and electrophotography equipment 2 move to the bottom, and the space which suited the side which is not printed in electrophotography equipment 1 and electrophotography equipment 2 moves from it to the bottom while the print sheet P sent out from electrophotography equipment 2 is mostly changed into a right angle in a conveyance path by form clinch equipment 8.

[0018] The form P which passed form clinch equipment 8 is sent into electrophotography equipment 3, and like printing operation in electrophotography equipment 2, after discriminating a sign 5 by the sign discernment means 6, printing of 3rd image information 3a is performed by electrophotography equipment 3.

[0019] In addition, in the composition of the electrophotography equipment 3 formed after form clinch equipment 8, when being formed so that a sign 5 can read only in one side of Form P since the printing side of Form P is reversed as mentioned above, it is necessary to arrange in the lower part section to print sheet P space while conveying the sign discernment means 6.

[0020] The print sheet P sent out from electrophotography equipment 3 is sent into after-treatment equipment 4, and after treatment, such as decision work, is performed.

[0021] In addition, if a sign 5 is made identifiable also in the sign discernment means 7 prepared in after-treatment equipment 4, it will become possible to change after-treatment control of a print sheet P according to the content of image information.

[0022] Moreover, even if it forms the sign which the sign discernment means 7 reads with electrophotography equipment 3, it becomes possible [acquiring the same effect as the above].

[0023]

[Effect of the Invention] In the image formation process which forms image information in a continuous stationary continuously using two or more electrophotography equipments according to this invention as explained above The sign means forming which forms the sign according to the content of image information at a print sheet is prepared in the electrophotography equipment formed in the upstream of the aforementioned image formation process. Since a means to discriminate the aforementioned sign is prepared in the equipment formed down-stream and it was made to operate the aforementioned downstream device based on the aforementioned sign, also in comparatively complicated printing work, coordinated operation of two or more electrophotography equipments can be carried out smoothly.

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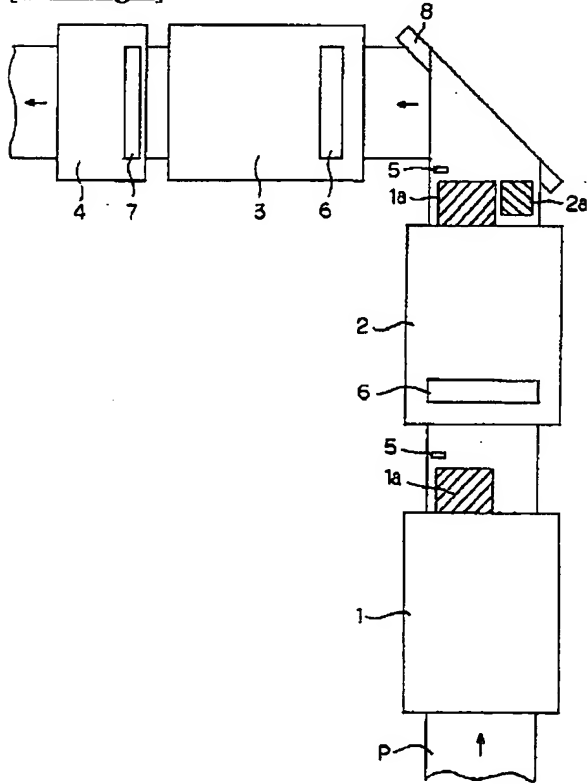
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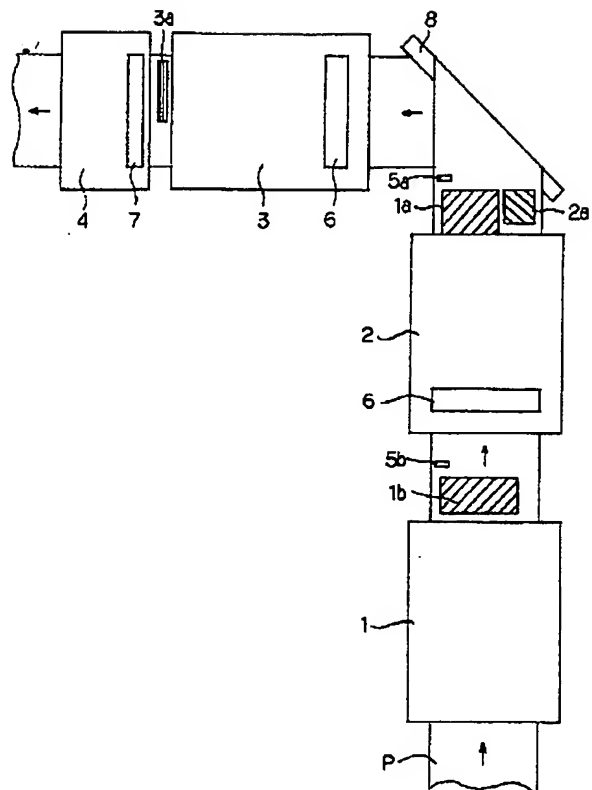
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DRAWINGS

[Drawing 1]



[Drawing 2]



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